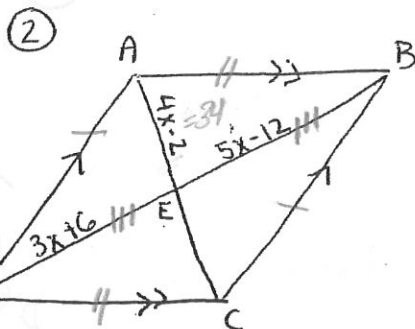


Find x .

$$8x - 18 = 90$$

$$8x = 108$$

$$x = \frac{108}{8} = \frac{27}{2} = 13\frac{1}{2}$$



Find AC.

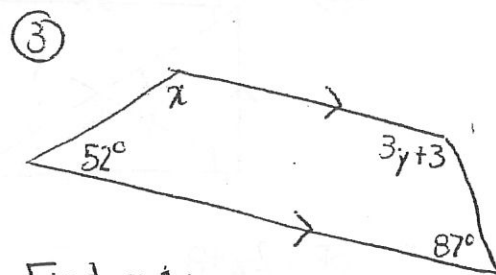
$$3x + 6 = 5x - 12$$

$$18 = 2x$$

$$9 = x$$

$$AC = 2(4x - 2) = 8x - 4 = 8(9) - 4$$

$$AC = 68$$



Find x & y .

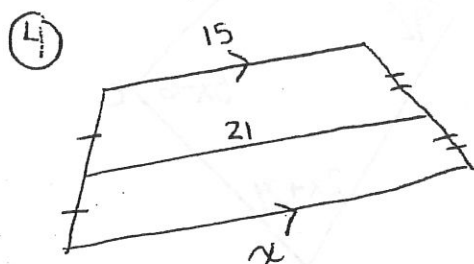
$$180 - 52 = x$$

$$128 = x$$

$$3y + 3 = 87$$

$$3y = 84$$

$$y = 28$$

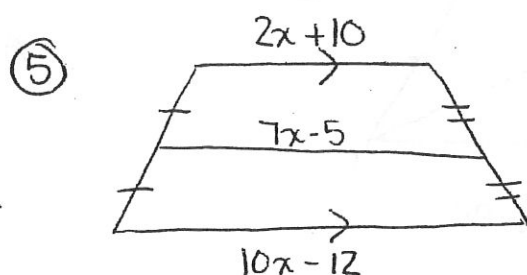


Find x .

$$21 = \frac{1}{2}(15 + x)$$

$$42 = 15 + x$$

$$27 = x$$



Find x .

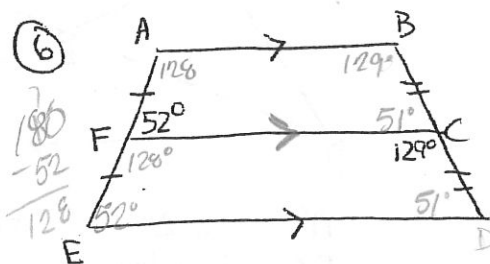
$$7x - 5 = \frac{1}{2}(2x + 10 + 10x - 12)$$

$$7x - 5 = \frac{1}{2}(12x - 2)$$

$$14x - 10 = 12x - 2$$

$$2x = 8$$

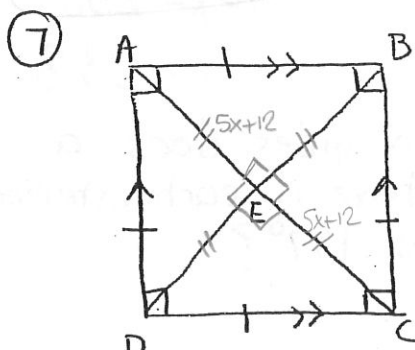
$$x = 4$$



Find $m\angle A$, $m\angle E$, $m\angle B$, & $m\angle D$.

$$m\angle A = 128^\circ \quad m\angle B = 129^\circ$$

$$m\angle E = 52^\circ \quad m\angle D = 51^\circ$$



$$AE = 5x + 12 \quad 5x + 12 = \frac{1}{2}(12x + 6)$$

$$BD = 12x + 6 \quad 5x + 12 = 6x + 3$$

Find EC.

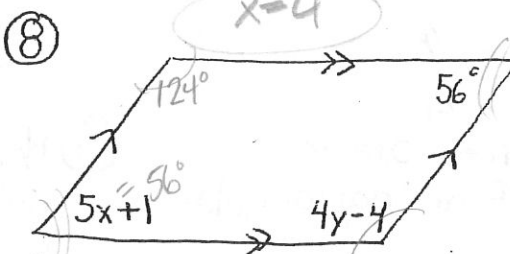
$$9 = x$$

$$EC = 5x + 12$$

$$= 5(9) + 12$$

$$= 45 + 12$$

$$EC = 57$$



Find x & y .

$$5x + 1 = 56$$

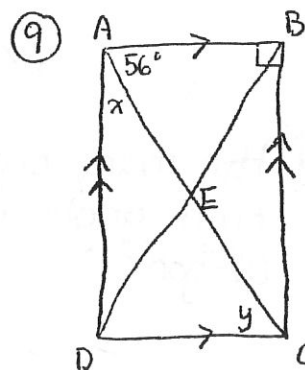
$$5x = 55$$

$$x = 11$$

$$124 = 4y - 4$$

$$128 = 4y$$

$$32 = y$$

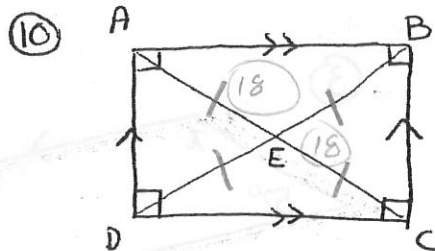


Find x & y .

$$x + 56 = 90$$

$$x = 34$$

$$y = 56$$



$$BE = 2x + 8$$

$$AE = 4x - 2$$

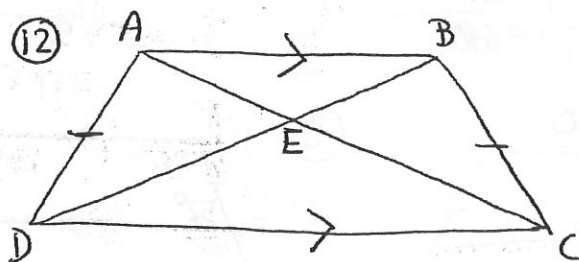
Find AC.

$$2x + 8 = 4x - 2$$

$$10 = 2x$$

$$5 = x$$

$$AC = 36$$



$$AE = 5x - 2$$

$$EC = 7x + 5$$

$$DB = 10x + 11$$

Find AC.

$$AC = DB$$

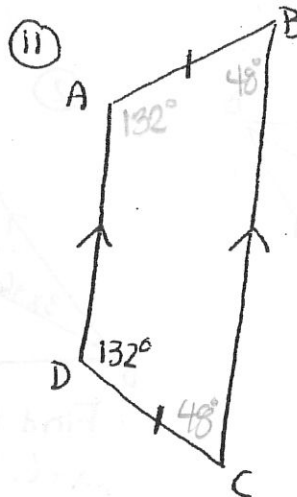
$$5x - 2 + 7x + 5 = 10x + 11$$

$$12x + 3 = 10x + 11$$

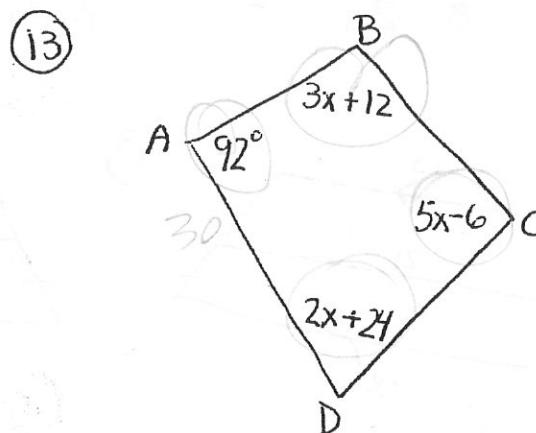
$$2x = 8$$

$$x = 4$$

$$AC = 51$$



Find $m\angle A$, $m\angle B$ and $m\angle C$



Find $m\angle D$.

$$10x + 122 = 360$$

$$10x = 238$$

$$x = 23.8$$

$$71.6^\circ$$

⑭ How many degrees are in each angle of an equiangular 56-gon?

$$\frac{(56-2)180}{56} = 173.5^\circ$$

⑮ How many sides does a polygon have if each interior \angle measures 177° ?

$$n = 120$$